

## Certificate of Conformance to Requirements for Welding Electrode

Product Type: HOBALLOY 8018C1

Classification: E8018-C1 H4

Specifications: AWS A5.5/A5.5M; ASME SFA 5.5

 Diameter Tested:
 1/8"-5/32"

 Date Tested:
 11/15/2023

 Date Generated:
 11/16/2023

This is to certify that the product named above and supplied on the referenced order number is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was concluded on the date shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied by the Quality System Program of Hobart Brothers, which meets the requirements of ISO 9001, ANSI/AWS A5.01, and other specification and Military requirements, as applicable. This document supplies actual test results of non-specific inspection in conformance with the requirements of EN 10204, type 2.2 certification.

## MADE IN THE ILS. OF ILS. AND IMPORTED MATERIALS.

						Te	st Se	tting	js																
Size			Polarity					Amps			Volts				Preh				C)	Т	Interpass F(C)				
5/32X14 in			AC					190			2	:4	225 (				107)	7) 225 (107)					7)	_	
5/32X14 in			DCEP				180				24	22				107)		Т	225 (107)						
1/8X14 in			DCEP				140				1/2	/2 225				5 (107)			225 (107)						
1/8X14 in		AC				140				26 - 23 1/2				225 (107)				) 225 (107)						_	
	,				Mech	anical	Prop	erti	es -	Tensi	le						_								Ξ
Size / Polarity	Ref. No.	Testing Conditions							Strength psi(MPa					rength psi(MPa)				Elong.% in 2"							
5/32X14 in / AC	PE6939	SR 1 Hr @ 11					000 ( 595 )						•	,000 ( 509 )				27							
5/32X14 in / DCEP	PE6952	SR 1	Hr @ 11	25F		000 ( 586 )							000 ( 500 )				28								
1/8X14 in / DCEP	PE7149	Aged	48 Hrs 2		000 ( 616 )					7	'6,000 (	000 ( 523 )				28									
1/8X14 in / AC	PE7190	Aged	48 Hrs 2	20F		93,0	00 ( 6	642)	)			7	'8,000 (	00 ( 539 )				28							_
					Mech	nanical	Prop	erti	es -	· Impac	t									_					_
Size / Polarity	Ref. No.	Testin	g Condit	ions	Tes	t Temp	. F(C	)		Indiv	idual	b.(J)	(J) Averag				t.lb.(、	J)	L	Туре					
5/32X14 in / AC	PE6939	SR 1	Hr @ 11	25F		75 F (-5	59 C)		7	76,85,89 (103,115				,121) 83 (				3)			Charpy-V-Notch				
5/32X14 in / DCEP	PE6952	SR 1		75 F (-5	59 C)		9	96,95,9	4 (13	0,12	29,127)	27) 95 ( 1				9)			Charpy-V-Notch						
1/8X14 in / DCEP	PE7149	As		10 C)		9	6,103,9	9 (130,140,134)				99 ( 135 )					Charpy-V-Notch								
1/8X14 in / AC	PE7190	As	-40 F (-40 C)					73,81,81 (99,110,				10) 78 ( 106 )						Charpy-V-Notch							
Size / Polarity													Fillet Weld Test												
5/32X14 in / AC 5/32X14 in / DCEP	PE6939 PE6952					Horizontal : Horizontal :					Overhead : Conforms Overhead : Conforms														
1/8X14 in / DCEP PE7149 Conforms				Horizoi								Overhead : Conform										_			
1/8X14 in / AC	Conforms	;			Horizo	ontal : mical Analy				Overhe	Overhead : Conforms						V	Vertical : Conforms				_			
Size / Polarity	/ Dof No	С	Mn	Р	s	Si	Cu	_		Ni Ni	Ma	الما	Ti Nb	Col	ы	١٨/ ١	en l	E.	Ch.	M	Ma	70	D <sub>0</sub>	Sb	_
5/32X14 in / DCI		0.0	_	0.01	0.02	0.45	Cu	GI.	H	2.26	IVIO	A	II IND	00		VV	311	re	30	H	ivig		De	30	_
		0.0	_	0.01	0.02	0.43	-	Н	Н	2.24		Н		$\vdash$	+	+	_	$\vdash$	Н	Н		$\vdash\vdash$	$\vdash\vdash$	$\vdash$	_
		0.0	_	0.01	0.01	0.23	-	Н	Н	2.24	_	Н	-		+	+	-	-	Н	Н		$\vdash$	H		_
		0.0		0.01	0.01	0.28	-	Н	Н	2.21		Н	-	$\vdash$	+	+	_	H	Н	$\dashv$	-	$\vdash$	$\vdash\vdash$	$\vdash$	_
						<u> </u>	<u> </u>	Ш	2.00		Ш	<u> </u>						<u> </u>	$\sqcup$					_	
						d : Train - As Received							Total Coating Moisture : 0.05												
5/32X14 in / CD98397 Total H2O Me					od : Train - 9 Hour							Total Coating Moisture : 0.245													
1/8X14 in / CD98729 Total H2					al H2O Method : Train - As Received							Total Coating Moisture : 0.062													
1/8X14 in / CF00922 Total H2O Metho						: Train - 9 Hour							Total	Total Coating Moisture : 0.13											
					ısible H					•										_			_		_
			ml/100g																						
			ml/100g																						
		2.8	ml/100	of we	ld meta	l for 1	8X14	l in c	lian	neter 2	25% r	elat	ive hur	nidity											_
		3.2	ml/100	g of we	ld meta	l for 1	8X14	in c	lian	neter 2	24% r	elat	ive hur	nidity											

James a Omenof

James A. Owens, Q.A. Specialist

Certification and Limited Warranty - Data for the above supplied product are those obtained when welded and tested in accordance with the above specification. All tests for the above classification were satisfied. Other tests and procedures may produce different results.